

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>58</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0563_01_s_2012_58				
Comment Code					
Inspector Comment					
The LMA has a copy of the O&M Manual.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>101</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0563_01_s_2013_101				
Comment Code					
Inspector Comment					
The LMA maintains an adequate stockpile of flood fight supplies.					

No Photos

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>102</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD0563_01_s_2013_102				
Comment Code					
Inspector Comment					
The LMA has received flood fight training within the last two years.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.01	Rating **	M	Issue No.	130
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.235059 °	38.235059 °
				-121.517480 °	-121.517480 °
DWR ID	DWR_RD0563_01_f_2016_130				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.04	Rating **	M	Issue No.	77
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.234861 °	38.234133 °
				-121.517934 °	-121.518758 °
DWR ID	DWR_RD0563_01_f_2018_77				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 12.0 L					
Status: Eroding New					
2017 Field Notes: Toe erosion throughout site, slumping, subvertical levee slope in sections.					
Site History:					

No Photos

LM Start	0.06	Rating **	M	Issue No.	131
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.234538 °	38.234538 °
				-121.518012 °	-121.518012 °
DWR ID	DWR_RD0563_01_f_2018_131				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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### Reclamation District No. 0563 Tyler Island

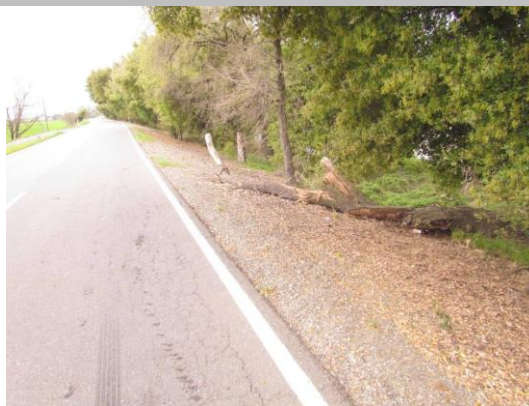
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.11	Rating **	M	Issue No.	4
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.234018 °	38.234018 °
				-121.518547 °	-121.518547 °
DWR ID	DWR_RD0563_01_s_2019_4				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.17	Rating **	M	Issue No.	32
LM End	0.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.233315 °	38.232887 °
				-121.519360 °	-121.519852 °
DWR ID	DWR_RD0563_01_s_2012_32				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A tree has fallen across the waterward slope.					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_32\_20190311\_00015.jpg



Looking downstream at tree branch on waterward slope. (Spring 2017)

LM Start	<b>0.17</b>	Rating **	M	Issue No.	<b>32 (cont)</b>
LM End	<b>0.21</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2019\_RD0563\_210\_32\_20190311\_00016.jpg



Looking downstream at fallen tree limb on waterside slope. (Spring 2016)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.19	Rating **	M	Issue No.	2
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.233126 °	38.231435 °
				-121.519525 °	-121.521282 °
DWR ID	DWR_RD0563_01_s_2012_2				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.21	Rating **	C	Issue No.	138
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.232877 °	38.226420 °
				-121.519855 °	-121.525885 °
DWR ID	DWR_RD0563_01_f_2015_138				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landside slope.					

No Photos

LM Start	0.23	Rating **	M	Issue No.	61
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.232692 °	38.226420 °
				-121.520014 °	-121.525885 °
DWR ID	DWR_RD0563_01_s_2019_61				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_61\_20190405\_00228.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2019).

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.40	Rating **	M	Issue No.	114
LM End	0.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.230744 °	38.230744 °
				-121.522022 °	-121.522022 °
DWR ID	DWR_RD0563_01_f_2017_114				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_114\_20190311\_00079.jpg



Looking southwest at the waterside slope.

LM Start	0.44	Rating **	C	Issue No.	7
LM End	0.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.230357 °	38.230357 °
				-121.522485 °	-121.522485 °
DWR ID	DWR_RD0563_01_f_2018_7				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.45	Rating **	A/W	Issue No.	72
LM End	0.70	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.230326 °	38.227692 °
				-121.522886 °	-121.526096 °
DWR ID	DWR_RD0563_01_f_2018_72				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 11.4 L					
Status: Critical					
2017 Field Notes: New erosion site, upgraded to critical. Subvertical face from levee hinge, large erosion pockets, and toe erosion throughout.					
Site History:					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



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### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.49	Rating **	M	Issue No.	132
LM End	0.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.229747 °	38.229747 °
				-121.523057 °	-121.523057 °
DWR ID	DWR_RD0563_01_f_2018_132				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.53	Rating **	M	Issue No.	34
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.229232 °	38.229232 °
				-121.523538 °	-121.523538 °
DWR ID	DWR_RD0563_01_f_2018_34				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage is due to vehicle traffic.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_34\_20190311\_00017.jpg



Looking northwest at slope damage caused by vehicle traffic.

LM Start	0.56	Rating **	M	Issue No.	143
LM End	0.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.228930 °	38.228930 °
				-121.523935 °	-121.523935 °
DWR ID	DWR_RD0563_01_f_2014_143				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage is due to vehicle traffic.					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_143\_20190311\_00104.jpg



Looking southeast at slope damage on waterward slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.56	Rating **	M	Issue No.	143 (cont)	
LM End	0.56	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.228930 °		38.228930 °
				-121.523935 °		-121.523935 °
DWR ID	DWR_RD0563_01_f_2014_143					
Comment Code						
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.						
Inspector Comment						
Slope damage is due to vehicle traffic.						

Photo 2 of 2 : SP\_2019\_RD0563\_210\_143\_20190311\_00105.jpg



Looking northwest at slope damage on waterward slope.

LM Start	0.63	Rating **	M	Issue No.	133
LM End	0.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.228272 °	38.228272 °
				-121.524900 °	-121.524900 °
DWR ID	DWR_RD0563_01_f_2018_133				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation on the waterside slope.					

No Photos

LM Start	0.73	Rating **	U	Issue No.	3
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.227169 °	38.226370 °
				-121.525892 °	-121.525912 °
DWR ID	DWR_RD0563_01_s_2012_3				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
There is dense vegetation on the waterward slope.					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_3\_20190311\_00001.jpg



Looking east at untrimmed trees on waterward slope. (Fall 2016)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
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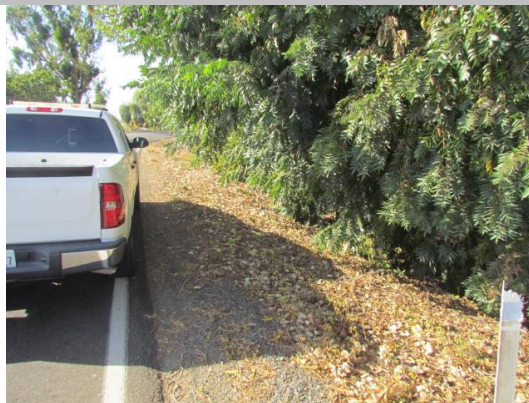
**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.73	Rating **	U	Issue No.	3 (cont)	
LM End	0.79	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.227169 °		38.226370 °
				-121.525892 °		-121.525912 °
DWR ID	DWR_RD0563_01_s_2012_3					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
There is dense vegetation on the waterward slope.						

Photo 2 of 2 : SP\_2019\_RD0563\_210\_3\_20190311\_00002.jpg



Looking east at untrimmed trees on waterward slope and toe. (Spring 2016)

LM Start	0.88	Rating **	C	Issue No.	120
LM End	0.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.225482 °	38.225482 °
				-121.526882 °	-121.526882 °
DWR ID	DWR_RD0563_01_s_2017_120				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on waterward slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.92	Rating **	M	Issue No.	70	
LM End	1.11	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 USACE Erosion Survey, DRAFT			38.225660 °	38.227157 °	
				-121.527556 °	-121.530432 °	
DWR ID	DWR_RD0563_01_f_2018_70					
Comment Code						
Inspector Comment						
2017 Site ID: GEO 11.0 L						
Status: Eroding						
2017 Field Notes: Increased toe erosion, slumping, boat wake erosion, and revetment failure near downstream end. Site extended upstream.						
Site History: 2011 - Short sections of eroding bank at the waterline and holes in toe of levee. 2012 - Site extended upstream. 2013 - Erosion pockets filled with an insufficient amounts of revetment. 2016 - Fresh erosion observed.						

Photo 1 of 1 : SP\_2019\_RD0563\_210\_70\_20190311\_00029.jpg



USACE 2013 Photo #1

LM Start	0.92	Rating **	C	Issue No.	755
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.225549 °	38.225549 °
				-121.527658 °	-121.527658 °
DWR ID	DWR_RD0563_01_s_2015_755				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.95	Rating **	U	Issue No.	121
LM End	0.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.225808 °	38.225808 °
				-121.528197 °	-121.528197 °
DWR ID	DWR_RD0563_01_s_2017_121				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are several large rodent holes on the landward slope.					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_121\_20190311\_00084.jpg



Looking at typical rodent hole at this location.

LM Start	<b>0.95</b>	Rating **	U	Issue No.	<b>121 (cont)</b>
LM End	<b>0.95</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2019\_RD0563\_210\_121\_20190311\_00085.jpg



3/30/2018: Rodent burrows on landside.

LM Start	0.97	Rating **	M	Issue No.	62
LM End	0.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.225922 °	38.225922 °
				-121.528362 °	-121.528362 °
DWR ID	DWR_RD0563_01_s_2019_62				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
New willows growing on the waterside slope should be removed.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	0.99	Rating **	M	Issue No.	147
LM End	0.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.226138 °	38.226138 °
				-121.528745 °	-121.528745 °
DWR ID	DWR_RD0563_01_f_2014_147				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_147\_20190405\_00229.jpg



View of squirrel holes with recent rodent activity (Spring 2019).

LM Start	1.03	Rating **	U	Issue No.	110
LM End	1.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.226422 °	38.226422 °
				-121.529410 °	-121.529410 °
DWR ID	DWR_RD0563_01_s_2018_110				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
A very large rodent burrow has caused the landside shoulder to collapse. The shoulder should be restored.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_110\_20190311\_00077.jpg



3/30/2018: Very large rodent burrow causing caving at landside shoulder.

LM Start	1.09	Rating **	C	Issue No.	758
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.226892 °	38.227053 °
				-121.530234 °	-121.530632 °
DWR ID	DWR_RD0563_01_s_2015_758				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	1.15	Rating **	U	Issue No.	153
LM End	1.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.226910 °	38.226910 °
				-121.531294 °	-121.531294 °
DWR ID	DWR_RD0563_01_f_2015_153				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Several large to medium rodent holes have been noted at this location.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_153\_20190311\_00113.jpg



Looking at typical view of several rodent holes on landward slope.

LM Start	1.15	Rating **	M	Issue No.	135
LM End	1.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.226885 °	38.226885 °
				-121.531282 °	-121.531282 °
DWR ID	DWR_RD0563_01_f_2018_135				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.20	Rating **	M	Issue No.	69
LM End	1.93	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.226635 °	38.222157 °
				-121.532167 °	-121.543591 °
DWR ID	DWR_RD0563_01_f_2018_69				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 10.2 L					
Status: Eroding New					
2017 Field Notes: Evidence of meander process, eroding to short vertical face					
Site History:					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	1.22	Rating **	M	Issue No.	79
LM End	1.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.226361 °	38.226361 °
				-121.532270 °	-121.532270 °
DWR ID	DWR_RD0563_01_s_2019_79				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim recently downed tree branches on the landside slope.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_79\_20190405\_00230.jpg



View looking downslope of recently downed branches on landside slope (Spring 2019).

LM Start	1.34	Rating **	M	Issue No.	81
LM End	1.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.224910 °	38.224910 °
				-121.533504 °	-121.533504 °
DWR ID	DWR_RD0563_01_s_2019_81				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.39	Rating **	C	Issue No.	5
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.224398 °	38.224398 °
				-121.534125 °	-121.534125 °
DWR ID	DWR_RD0563_01_s_2018_5				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	1.42	Rating **	M	Issue No.	759
LM End	1.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.224150 °	38.224150 °
				-121.534565 °	-121.534565 °
DWR ID	DWR_RD0563_01_s_2015_759				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_759\_20190311\_00119.jpg



Looking northwest at untrimmed trees on waterward slope and toe.

LM Start	1.42	Rating **	M	Issue No.	100
LM End	1.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.224091 °	38.222778 °
				-121.534687 °	-121.541612 °
DWR ID	DWR_RD0563_01_s_2019_100				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.42	Rating **	M	Issue No.	108
LM End	1.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.224091 °	38.223597 °
				-121.534692 °	-121.536473 °
DWR ID	DWR_RD0563_01_s_2019_108				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	1.60	Rating **	M	Issue No.	56
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.223303°	38.223303°
				-121.537722°	-121.537722°
DWR ID	DWR_RD0563_01_s_2012_56				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.64	Rating **	M	Issue No.	117
LM End	1.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.223195°	38.223195°
				-121.538429°	-121.538429°
DWR ID	DWR_RD0563_01_s_2019_117				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.68	Rating **	M	Issue No.	115
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.223098°	38.223098°
				-121.539130°	-121.539130°
DWR ID	DWR_RD0563_01_f_2017_115				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side WS : Water Side CR : Crown		A : Acceptable M : Minimally Acceptable U : Unacceptable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
N/A : Not Applicable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	1.69	Rating **	C	Issue No.	123
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.223110 °	38.223110 °
				-121.539495 °	-121.539495 °
DWR ID	DWR_RD0563_01_s_2017_123				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on waterside slope.					

No Photos

LM Start	1.95	Rating **	M	Issue No.	71
LM End	1.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.221826 °	38.221826 °
				-121.543467 °	-121.543467 °
DWR ID	DWR_RD0563_01_f_2012_71				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is erosion around the irrigation pump house and pipe on the landside slope.					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_71\_20190311\_00030.jpg



Looking west at erosion at landside toe and slope next to pump house.

LM Start	<b>1.95</b>	Rating **	M	Issue No.	<b>71 (cont)</b>
LM End	<b>1.95</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2019\_RD0563\_210\_71\_20190311\_00031.jpg



Looking southwest at erosion around irrigation pipe on landside slope and toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	1.97	Rating **	M	Issue No.	152
LM End	2.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.221642 °	38.210801 °
				-121.543452 °	-121.534840 °
DWR ID	DWR_RD0563_01_s_2019_152				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_152\_20190405\_00231.jpg



View looking downstream at annual vegetation on the landside slope (Spring 2019).

LM Start	1.98	Rating **	M	Issue No.	66
LM End	2.22	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.221405 °	38.217972 °
				-121.543627 °	-121.542861 °
DWR ID	DWR_RD0563_01_f_2018_66				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 10.0 L					
Status: Eroding New					
2017 Field Notes: Revetment failure, toe erosion moving landward.					
Site History:					

No Photos

LM Start	2.08	Rating **	A/W	Issue No.	14
LM End	2.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.220028 °	38.218494 °
				-121.542922 °	-121.542646 °
DWR ID	DWR_RD0563_01_s_2012_14				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	2.24	Rating **	M	Issue No.	127
LM End	2.29	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.217680 °	38.217003 °
				-121.542761 °	-121.542309 °
DWR ID	DWR_RD0563_01_f_2018_127				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 9.8 L					
Status: Eroding New					
2017 Field Notes: Whole bank failure, eroded to subvertical face, and giant animal holes.					
Site History:					

No Photos

LM Start	2.25	Rating **	A/W	Issue No.	116
LM End	2.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.217588 °	38.217588 °
				-121.542520 °	-121.542520 °
DWR ID	DWR_RD0563_01_s_2017_116				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA found the erosion while on patrol during the February Storm 2017.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_116\_20190311\_00080.jpg



Looking east at the landside toe erosion.

LM Start	2.40	Rating **	U	Issue No.	12
LM End	2.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.216122 °	38.216047 °
				-121.540555 °	-121.540415 °
DWR ID	DWR_RD0563_01_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on waterside shoulder and slope.					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	2.47	Rating **	M	Issue No.	107
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.215405 °	38.208046 °
				-121.539764 °	-121.540759 °
DWR ID	DWR_RD0563_01_f_2018_107				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 9.3 L					
Status: Critical					
2017 Field Notes: Upgraded to critical. Pockets of erosion - subvertical. Areas of failed revetment, old rock is unraveling, and eminent tree popout outs expected.					
Site History: 1997 - Loss of rock at toe; pockets of upper berm erosion; very narrow berm width; toe rock problem; erosion pockets in rock. 2002 - New brush boxes at toe of the worst spots. 2005 - Upstream 200 ft removed because of the wide berm. 2006 - Some rock repair pockets behind the brush boxes at the upstream end. 2010 - Some new erosion. 2013 - New rock placed on the levee slope. 2016 - Fresh erosion along the toe.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_107\_20190311\_00076.jpg



USACE 2013 Photo #1

LM Start	2.67	Rating **	M	Issue No.	140
LM End	2.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.213493 °	38.213493 °
				-121.537090 °	-121.537090 °
DWR ID	DWR_RD0563_01_f_2018_140				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	2.70	Rating **	M	Issue No.	162
LM End	2.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.213096 °	38.213096 °
				-121.536738 °	-121.536738 °
DWR ID	DWR_RD0563_01_s_2016_162				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on waterside shoulder.					

No Photos

LM Start	2.93	Rating **	M	Issue No.	67
LM End	2.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210472 °	38.210358 °
				-121.535175 °	-121.535478 °
DWR ID	DWR_RD0563_01_s_2012_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dead vines (berry or wildroses) on the landside toe.					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_67\_20190311\_00025.jpg



Looking east at dead berryvines at landward toe. (Spring 2017)

LM Start	<b>2.93</b>	Rating **	M	Issue No.	<b>67 (cont)</b>
LM End	<b>2.95</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2019\_RD0563\_210\_67\_20190311\_00026.jpg



Looking east at dead berryvines at landward toe. (Fall 2016)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	3.02	Rating **	M	Issue No.	74
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210212 °	38.209165 °
				-121.536728 °	-121.539920 °
DWR ID	DWR_RD0563_01_s_2012_74				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dead berryvines and dense vegetation at landside toe blocking view of toe.					

Photo 1 of 5 : SP\_2019\_RD0563\_210\_74\_20190311\_00035.jpg

Looking southeast at dead berryvines along landward toe and berm.  
(Spring 2017)

LM Start	<b>3.02</b>	Rating **	M	Issue No.	<b>74 (cont)</b>
LM End	<b>3.21</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 5 : SP\_2019\_RD0563\_210\_74\_20190311\_00036.jpg



Looking southeast at berryvines at landward toe., (Spring 2016)

LM Start	<b>3.02</b>	Rating **	M	Issue No.	<b>74 (cont)</b>
LM End	<b>3.21</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 5 : SP\_2019\_RD0563\_210\_74\_20190311\_00037.jpg



Looking south at dense vegetation (willows) at landward toe. (Spring 2016)

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	3.02	Rating **	M	Issue No.	74 (cont)	
LM End	3.21	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.210212 °		38.209165 °
				-121.536728 °		-121.539920 °
DWR ID	DWR_RD0563_01_s_2012_74					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Dead berryvines and dense vegetation at landside toe blocking view of toe.						

Photo 4 of 5 : SP\_2019\_RD0563\_210\_74\_20190311\_00038.jpg



Looking southeast at dense berryvines at landward toe. (Spring 2015)

LM Start	<b>3.02</b>	Rating **	M	Issue No.	<b>74 (cont)</b>
LM End	<b>3.21</b>	Issue Type +	Ma	Location *	LS

Photo 5 of 5 : SP\_2019\_RD0563\_210\_74\_20190311\_00039.jpg



Looking south at dense vegetation at landward slope and toe. (Spring 2015)

LM Start	3.06	Rating **	U	Issue No.	78
LM End	3.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.210240 °	38.210240 °
				-121.537517 °	-121.537517 °
DWR ID	DWR_RD0563_01_s_2012_78				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage on landside shoulder and slope has been in place for several inspection cycles. Proper drainage should be provided to prevent further erosion, and erosion should be repaired.					

Photo 1 of 5 : SP\_2019\_RD0563\_210\_78\_20190311\_00045.jpg



Looking southwest at the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	3.06	Rating **	U	Issue No.	78 (cont)	
LM End	3.06	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.210240 °		38.210240 °
				-121.537517 °		-121.537517 °
DWR ID	DWR_RD0563_01_s_2012_78					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Slope damage on landside shoulder and slope has been in place for several inspection cycles. Proper drainage should be provided to prevent further erosion, and erosion should be repaired.						

Photo 2 of 5 : SP\_2019\_RD0563\_210\_78\_20190311\_00046.jpg



Looking north at rain runoff erosion on landward slope. (Spring 2017)

LM Start	<b>3.06</b>	Rating **	U	Issue No.	<b>78 (cont)</b>
LM End	<b>3.06</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 5 : SP\_2019\_RD0563\_210\_78\_20190311\_00047.jpg



Looking west at rain runoff erosion on landward slope. (Spring 2016)

LM Start	<b>3.06</b>	Rating **	U	Issue No.	<b>78 (cont)</b>
LM End	<b>3.06</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 5 : SP\_2019\_RD0563\_210\_78\_20190311\_00048.jpg



Looking east at slope erosion. (Updated Spring 2012)

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	3.06	Rating **	U	Issue No.	78 (cont)	
LM End	3.06	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.210240 °		38.210240 °
				-121.537517 °		-121.537517 °
DWR ID	DWR_RD0563_01_s_2012_78					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Slope damage on landside shoulder and slope has been in place for several inspection cycles. Proper drainage should be provided to prevent further erosion, and erosion should be repaired.						

Photo 5 of 5 : SP\_2019\_RD0563\_210\_78\_20190311\_00049.jpg



Looking west at slope erosion cause by runoff on landside slope.

LM Start	3.11	Rating **	U	Issue No.	112
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210018 °	38.209201 °
				-121.538353 °	-121.539871 °
DWR ID	DWR_RD0563_01_s_2018_112				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Dense woody vegetation (up to 6" in diameter) along lower slope and toe prevents inspection and access. Needs to be removed.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_112\_20190311\_00078.jpg



Very dense woody vegetation preventing inspection and access to landside toe.

LM Start	3.21	Rating **	U	Issue No.	68
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.209217 °	38.209217 °
				-121.539823 °	-121.539823 °
DWR ID	DWR_RD0563_01_s_2012_68				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_68\_20190311\_00027.jpg



Looking south at dense trees on landward slope.

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	3.21	Rating **	U	Issue No.	68 (cont)	
LM End	3.21	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.209217 °		38.209217 °
				-121.539823 °		-121.539823 °
DWR ID	DWR_RD0563_01_s_2012_68					
Comment Code						
T2 : Thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						

Photo 2 of 2 : SP\_2019\_RD0563\_210\_68\_20190311\_00028.jpg



Looking southeast at dense trees on landside slope and toe.

LM Start	3.26	Rating **	M	Issue No.	764
LM End	3.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.208593 °	38.208593 °
				-121.540332 °	-121.540332 °
DWR ID	DWR_RD0563_01_s_2015_764				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	3.42	Rating **	M	Issue No.	94
LM End	4.01	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.206346 °	38.199925 °
				-121.540819 °	-121.544249 °
DWR ID	DWR_RD0563_01_f_2018_94				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 8.3 L					
Status: Eroding					
2017 Field Notes: New rock on levee in sections, failure of old rock in other sections, site extended upstream to account for new erosion pocket.					
Site History: 1997 - Narrow eroding berm upstream of existing rock.					
2001 - Staked, low fascine walls at bankline. 2011 - Minor new erosion. Site extended downstream. 2012 - Rock repair failing in one erosion pocket. 2016 - Fresh erosion observed.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_94\_20190311\_00065.jpg



USACE 2013 Photo #1

LM Start	4.26	Rating **	M	Issue No.	141
LM End	4.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.196777 °	38.196308 °
				-121.546322 °	-121.546578 °
DWR ID	DWR_RD0563_01_f_2018_141				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	4.42	Rating **	M	Issue No.	144
LM End	4.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.194957 °	38.194957 °
				-121.548055 °	-121.548055 °
DWR ID	DWR_RD0563_01_f_2018_144				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.52	Rating **	M	Issue No.	146
LM End	4.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194090 °	38.194090 °
				-121.549568 °	-121.549568 °
DWR ID	DWR_RD0563_01_f_2018_146				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove arundo.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_146\_20190311\_00107.jpg



View of arundo on waterside slope (October 2018).

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	4.98	Rating **	M	Issue No.	92
LM End	5.04	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.190073 °	38.189524 °
				-121.556307 °	-121.557227 °
DWR ID	DWR_RD0563_01_f_2018_92				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 7.2 L					
Status: Eroding					
2017 Field Notes: New erosion at toe.					
Site History: 2009 - Small scallops of erosion into the levee toe behind brush boxes. 2011 - Minor new erosion. 2012 - Site extended upstream to account for addition erosion pockets. 2016 - Fresh erosion observed.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_92\_20190311\_00063.jpg



USACE 2013 Photo #1

LM Start	5.39	Rating **	U	Issue No.	91
LM End	5.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.186013 °	38.185968 °
				-121.561512 °	-121.561667 °
DWR ID	DWR_RD0563_01_f_2018_91				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 6.3 L					
Status: Critical					
2018: Do not see evidence of vertical face erosion from levee hinge.					
2017 Field Notes: Upgraded to CRITICAL. Combined with 6.8. Vertical sections from mid slope to toe, vertical face from levee hinge at some locations. Wave/tide erosion at toe, evidence of beavers.					
Site History: 1997 - Deep pockets of erosion and narrow berm. Reach is characterized by lots of pockets into the existing berm and/or levee slope. 1999 - Some pockets filled with rock riprap. 2000 - Exposed fabric. 2001 - Staked, low fascine walls at bankline. 2002 - New spot of rock at upstream end. Some new brush boxes. 2005 - Some stone sliding off the underlying geotextile fabric. Some new brush bundles in the brush boxes; some with missing bundles. Some boxes too low relative to high tide. 2009 - Minimal new erosion, site length extended. 2010 - New erosion on downstream end, site extended downstream. 2011 - Sites 6.1, 6.4 and 6.6 were combined. New erosion pockets, site extended to include the erosion in between the old sites. 2012 - Rock has been placed in portions of the bank since last year. 2016 - Site 5.8 was merged with this site due to new erosion connecting the sites.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_91\_20190311\_00062.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	5.88	Rating **	C	Issue No.	126
LM End	5.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.182302 °	38.182302 °
				-121.569232 °	-121.569232 °
DWR ID	DWR_RD0563_01_s_2019_126				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings stock pile on waterside slope and berm.					

No Photos

LM Start	5.92	Rating **	U	Issue No.	22
LM End	5.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.181965 °	38.181763 °
				-121.569913 °	-121.570447 °
DWR ID	DWR_RD0563_01_s_2012_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Large cactus on landside slope.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_22\_20190311\_00011.jpg



Looking downstream at dense cactus on landward slope. (Fall 2016)

LM Start	6.00	Rating **	M	Issue No.	35
LM End	6.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.181512 °	38.181512 °
				-121.571298 °	-121.571298 °
DWR ID	DWR_RD0563_01_s_2012_35				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	6.38	Rating **	M	Issue No.	129
LM End	6.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.180462 °	38.179319 °
				-121.577895 °	-121.578566 °
DWR ID	DWR_RD0563_01_f_2018_129				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 5.8 L					
Status: Eroding					
2017 Field Notes: Last observed in 2013.					
Site History: 2013 - Erosion pockets into the levee prism. Erosion pockets primarily located behind unmaintained brush boxes.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_129\_20190311\_00095.jpg



USACE 2013 Photo #1

LM Start	6.59	Rating **	U	Issue No.	164
LM End	6.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.177438 °	38.176647 °
				-121.579151 °	-121.579560 °
DWR ID	DWR_RD0563_01_s_2016_164				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation (dead berry vines) at landside toe should be removed.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_164\_20190311\_00116.jpg



Looking east at dense vegetation (vines) at landward toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	6.61	Rating **	M	Issue No.	89
LM End	7.28	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.177202 °	38.167959 °
				-121.579439 °	-121.581616 °
DWR ID	DWR_RD0563_01_f_2018_89				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 5.3 L					
Status: Eroding					
2017 Field Notes: Site extended upstream, increased toe erosion from boat wake/tide action, RD has placed rock on levee slope in places.					
Site History: 1997 - Pocket erosion into the toe of the levee. 2000 - Scallops in banks with small colored flags, biotech rolls present. 2001 - Staked, low fascine walls at bankline. 2003 - Still have visibly bad spots, especially at the upstream end. 2005 - Some new brush bundles in the brush boxes; some with missing bundles. Some boxes too low relative to high tide. 2010 - Site extended upstream. 2011 - Minor new erosion. 2016 - Fresh erosion observed.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_89\_20190311\_00058.jpg



USACE 2013 Photo #1

LM Start	6.64	Rating **	M	Issue No.	766
LM End	6.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.176820 °	38.176820 °
				-121.579444 °	-121.579444 °
DWR ID	DWR_RD0563_01_s_2015_766				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

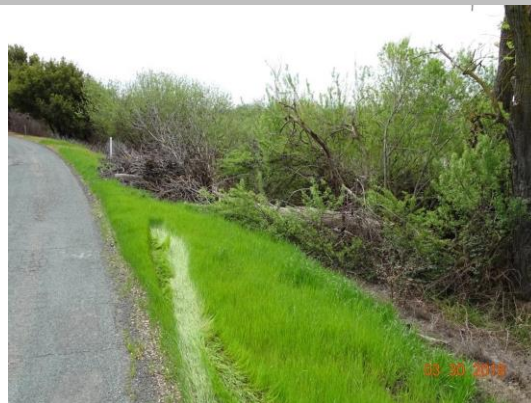
## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	6.74	Rating **	U	Issue No.	93
LM End	6.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175352 °	38.175352 °
				-121.580177 °	-121.580177 °
DWR ID	DWR_RD0563_01_s_2018_93				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large fallen tree should be removed from waterside slope and shoulder.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_93\_20190311\_00064.jpg



Remove fallen tree from levee slope.

LM Start	6.84	Rating **	M	Issue No.	113
LM End	6.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.173985 °	38.173985 °
				-121.579847 °	-121.579847 °
DWR ID	DWR_RD0563_01_s_2018_113				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	6.89	Rating **	M	Issue No.	87
LM End	6.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.173323 °	38.173323 °
				-121.579628 °	-121.579628 °
DWR ID	DWR_RD0563_01_s_2013_87				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	6.91	Rating **	M	Issue No.	156
LM End	9.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.172929 °	38.147464 °
				-121.579563 °	-121.586201 °
DWR ID	DWR_RD0563_01_s_2019_156				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	6.95	Rating **	M	Issue No.	95
LM End	6.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.172351 °	38.172351 °
				-121.579520 °	-121.579520 °
DWR ID	DWR_RD0563_01_f_2012_95				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree should be removed from waterside slope.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_95\_20190311\_00066.jpg



Looking southwest at tree on waterward slope.

LM Start	7.07	Rating **	U	Issue No.	151
LM End	7.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.170693 °	38.170693 °
				-121.579968 °	-121.579968 °
DWR ID	DWR_RD0563_01_f_2014_151				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense berry vines at landside toe.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_151\_20190311\_00112.jpg



Looking southeast at dense vegetation at landward toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	7.53	Rating **	U	Issue No.	85
LM End	7.80	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.164462 °	38.160888 °
				-121.583092 °	-121.584807 °
DWR ID	DWR_RD0563_01_f_2018_85				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 4.5 L Status: Critical 2018: Erosion happening at berm, 15 to 20' from the levee hinge point from the berm in some places, erosion into levee toe at other spots (Djulian). 2017 Field Notes: Numerous areas of bank erosion, with vertical sections up to the levee hinge. Site History: 1997 - Pocket erosion at upstream end and into the levee toe under the Alder trees. 2003 - New brush boxes with wattles on bank. 2004 - No brush boxes. 2005 - Site extended from the downstream side of the bridge. Whole bank is vertical. 2010 - Some minor new erosion. 2011 - Site upgraded to CRITICAL. New erosion pockets throughout the site. Sites 4.5, and 4.6 were combined. 2016 - Fresh erosion observed.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_85\_20190311\_00055.jpg



USACE 2013 Photo #1

LM Start	7.62	Rating **	A/W	Issue No.	97
LM End	7.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.163240 °	38.163240 °
				-121.583328 °	-121.583328 °
DWR ID	DWR_RD0563_01_s_2013_97				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Minor erosion on landside shoulder and slope should be monitored.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_97\_20190311\_00067.jpg



Looking east at slope erosion on landward shoulder and slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	7.71	Rating **	A/W	Issue No.	158
LM End	7.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.162056 °	38.162056 °
				-121.584043 °	-121.584043 °
DWR ID	DWR_RD0563_01_s_2019_158				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
The beaver hole was repaired by the LMA.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_158\_20190405\_00233.jpg



View of waterside slope repaired by LMA. A beaver hole was discovered on the waterside slope (Spring 2019).

LM Start	7.74	Rating **	M	Issue No.	29
LM End	7.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.161607 °	38.161092 °
				-121.584258 °	-121.584470 °
DWR ID	DWR_RD0563_01_s_2012_29				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Dense (untrimmed) trees on landside slope. Branches on ground should also be removed.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_29\_20190311\_00013.jpg



Looking southeast at dense trees on landward slope and toe.

LM Start	7.80	Rating **	U	Issue No.	90
LM End	7.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.160800 °	38.158922 °
				-121.584598 °	-121.585433 °
DWR ID	DWR_RD0563_01_s_2012_90				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Berry vines and willows are on the landside toe.					

Photo 1 of 3 : SP\_2019\_RD0563\_210\_90\_20190311\_00059.jpg



Looking southeast at dense vegetation at landward toe. (Spring 2015)

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	7.80	Rating **	U	Issue No.	90 (cont)	
LM End	7.94	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.160800 °		38.158922 °
				-121.584598 °		-121.585433 °
DWR ID	DWR_RD0563_01_s_2012_90					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Berry vines and willows are on the landside toe.						

Photo 2 of 3 : SP\_2019\_RD0563\_210\_90\_20190311\_00060.jpg



Looking northeast at dense vegetation on landside toe.

LM Start	<b>7.80</b>	Rating **	U	Issue No.	<b>90 (cont)</b>
LM End	<b>7.94</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2019\_RD0563\_210\_90\_20190311\_00061.jpg



Looking south at dense vegetation on landside toe. (2012 Fall Inspection)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0563 Tyler Island

USACE 2013 Photo #1Page 37 of 50

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	8.18	Rating **	U	Issue No.	767
LM End	8.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.156878 °	38.156945 °
				-121.588505 °	-121.589258 °
DWR ID	DWR_RD0563_01_s_2015_767				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dead dense vegetation blocking landside toe.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_767\_20190311\_00120.jpg



Looking south at the landside slope.

LM Start	8.64	Rating **	C	Issue No.	149
LM End	8.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.152447 °	38.152447 °
				-121.590355 °	-121.590355 °
DWR ID	DWR_RD0563_01_f_2018_149				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	9.20	Rating **	M	Issue No.	106
LM End	9.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.146167 °	38.145835 °
				-121.587483 °	-121.588532 °
DWR ID	DWR_RD0563_01_f_2013_106				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	





**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	9.36	Rating **	M	Issue No.	769
LM End	9.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.146276 °	38.147034 °
				-121.590189 °	-121.590907 °
DWR ID	DWR_RD0563_01_s_2015_769				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_769\_20190311\_00123.jpg



Looking east at dense vegetation at landward toe. (Spring 2015)

LM Start	9.64	Rating **	M	Issue No.	36
LM End	9.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.149790 °	38.149790 °
				-121.592788 °	-121.592788 °
DWR ID	DWR_RD0563_01_s_2012_36				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Vegetation blocking view of levee slope.					

No Photos

LM Start	9.65	Rating **	M	Issue No.	99
LM End	9.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.149905 °	38.149905 °
				-121.592910 °	-121.592910 °
DWR ID	DWR_RD0563_01_s_2019_99				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Minor erosion on landside shoulder and slope.					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_99\_20190311\_00069.jpg



Looking west at minor erosion on landward shoulder and slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	9.65	Rating **	M	Issue No.	99 (cont)	
LM End	9.65	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.149905 °		38.149905 °
				-121.592910 °		-121.592910 °
DWR ID	DWR_RD0563_01_s_2019_99					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Minor erosion on landside shoulder and slope.						

Photo 2 of 2 : SP\_2019\_RD0563\_210\_99\_20190311\_00070.jpg



Looking north at minor erosion on landward shoulder and slope.

LM Start	9.73	Rating **	A/W	Issue No.	82
LM End	9.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.150820 °	38.150647 °
				-121.593650 °	-121.596858 °
DWR ID	DWR_RD0563_01_f_2018_82				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 2.5 L Status: Eroding 2017 Field Notes: Head scarp observed. Site History: 1997 - Erosion pockets into the toe of the levee. 2001 - Staked low fascine walls at the bankline. 2004 - Numerous "Brush Boxes." 2005 - Some new bundles in the brush boxes. 2012 - Site extended downstream to account for new bank sloughing. 2013 - Some rock added to the upstream end by the local RD.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_82\_20190311\_00052.jpg



USACE 2013 Photo #1

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Reclamation District No. 0563 Tyler Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	9.73	Rating **	A/W	Issue No.	105	
LM End	9.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.150820 °		38.151196 °
				-121.593650 °		-121.594780 °
DWR ID	DWR_RD0563_01_s_2018_105					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:70						
Site Designation:DWR_RD0563_01_s_2012_49						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/9/2017						
Notes:						

LM Start	<b>9.73</b>	Rating **	A/W	Issue No.	<b>105 (cont)</b>
LM End	<b>9.78</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL\_SP\_2019\_70\_662.jpg



Photo 2 of 3 : LEVAL\_SP\_2019\_70\_667.jpg



* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	9.73	Rating **	A/W	Issue No.	105 (cont)	
LM End	9.78	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.150820 °	38.151196 °	
				-121.593650 °	-121.594780 °	
DWR ID	DWR_RD0563_01_s_2018_105					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:70						
Site Designation:DWR_RD0563_01_s_2012_49						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/9/2017						
Notes:						

Photo 3 of 3 : LEVAL\_SP\_2019\_70\_669.jpg



LM Start	9.87	Rating **	C	Issue No.	124
LM End	9.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.150800 °	38.150800 °
				-121.596297 °	-121.596297 °
DWR ID	DWR_RD0563_01_s_2018_124				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Severe erosion site on sandy levee should be monitored and repaired before winter 2018/19.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	10.15	Rating **	M	Issue No.	160
LM End	10.27	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.147537 °	38.145994 °
				-121.599433 °	-121.600581 °
DWR ID	DWR_RD0563_01_f_2018_160				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 2.0 L Status: Eroding 2017 Field Notes: Rock placed on levee for most of site in last years, but it is already failing, almost vertical bank. Site History: 1997 - Erosion pockets into the toe of the levee. 2001 - Staked low fascine walls at the bankline. 2004 - Numerous "Brush Boxes." 2005 - Some new bundles in the brush boxes. 2012 - Site extended downstream to account for new bank sloughing. 2013 - Some rock added to the upstream end by the local RD. 2016 - Quarry stone is starting to fail.					

No Photos

LM Start	10.45	Rating **	M	Issue No.	65
LM End	10.74	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.143519 °	38.139918 °
				-121.599677 °	-121.596986 °
DWR ID	DWR_RD0563_01_f_2018_65				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 1.7 L Status: Eroding 2017 Field Notes: New rock placed in erosion pockets, site has improved with work done by RD, but still some erosion pockets and toe erosion. Slump failure with headscarp at downstream end. Site History: 1997 - Old damaged rock riprap along the toe. 1999 - Downstream end (400 ft) repaired with rock. 2002 - New rock/concrete rubble section on the downstream end. 2004 - Small pocket repairs at the downstream end. 2005 - Some new bundles in the brush boxes. 2012 - Some rock has been placed in last year.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_65\_20190311\_00024.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	10.59	Rating **	M	Issue No.	76
LM End	10.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.141940 °	38.141940 °
				-121.598033 °	-121.598033 °
DWR ID	DWR_RD0563_01_s_2012_76				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
There is a deep depression on the landside shoulder and slope; possible pipe collapse.					

Photo 1 of 4 : SP\_2019\_RD0563\_210\_76\_20190311\_00041.jpg



Looking northeast a depression on landside shoulder and slope above 10" irrigation pipe four feet below crown.

LM Start	10.59	Rating **	M	Issue No.	76 (cont)
LM End	10.59	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2019\_RD0563\_210\_76\_20190311\_00042.jpg



Looking east at water ponding at landside toe just above 10" irrigation pipe.

LM Start	10.59	Rating **	M	Issue No.	76 (cont)
LM End	10.59	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP\_2019\_RD0563\_210\_76\_20190311\_00043.jpg



Looking west at depression on landside shoulder and slope from landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	10.59	Rating **	M	Issue No.	76 (cont)	
LM End	10.59	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.141940 °		38.141940 °
				-121.598033 °		-121.598033 °
DWR ID	DWR_RD0563_01_s_2012_76					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
There is a deep depression on the landside shoulder and slope; possible pipe collapse.						

Photo 4 of 4 : SP\_2019\_RD0563\_210\_76\_20190311\_00044.jpg



Looking west at depression on landside shoulder and slope.

LM Start	11.01	Rating **	M	Issue No.	770
LM End	12.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.136623 °	38.130739 °
				-121.594216 °	-121.579678 °
DWR ID	DWR_RD0563_01_s_2015_770				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
There is dense vegetation (wild roses) at the landside toe.					

Photo 1 of 3 : SP\_2019\_RD0563\_210\_770\_20190311\_00124.jpg



Looking southeast at the landside slope.

LM Start	<b>11.01</b>	Rating **	M	Issue No.	<b>770 (cont)</b>
LM End	<b>12.00</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2019\_RD0563\_210\_770\_20190311\_00125.jpg



Looking northeast at dead vines at landward toe. (Spring 2017)

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	11.01	Rating **	M	Issue No.	770 (cont)	
LM End	12.00	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.136623 °		38.130739 °
				-121.594216 °		-121.579678 °
DWR ID	DWR_RD0563_01_s_2015_770					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
There is dense vegetation (wild roses) at the landside toe.						

Photo 3 of 3 : SP\_2019\_RD0563\_210\_770\_20190311\_00126.jpg



Looking southeast at dense vegetation at landward toe. (Spring 2015)

LM Start	11.56	Rating **	M	Issue No.	63
LM End	11.66	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.130544 °	38.129968 °
				-121.587607 °	-121.585981 °
DWR ID	DWR_RD0563_01_f_2018_63				
Comment Code					
Inspector Comment					
2017 Site ID: GEO 0.3 L					
Status: Eroding					
2017 Field Notes: Site shortened. New rock placed on levee slope in erosion pockets.					
Site History: 1997 - Erosion pockets into the levee toe. 1999 - Some small pockets fixed with rock riprap. 2002 - New "brush boxes" along the bank toe. 2005 - Brush boxes are empty. Some pockets are filled with new stone. 2006 - Some new rock at the downstream end (~100 ft long). Several small pockets of new rock in scallops. Brush boxes in poor to fair condition. 2010 - Site looks a little worse, some toe rock but still has erosion scars at lower to mid slope. 2011 - Site upgraded to CRITICAL. Significant new erosion. Erosion scallops are vertical and almost the height of the levee. 2012 - Rock has been placed in some of the erosion scallops and therefore the site is no longer critical. 2013 - Site shortened site. The downstream half of site was repaired by RD. Pipe no longer in site limits.					

Photo 1 of 1 : SP\_2019\_RD0563\_210\_63\_20190311\_00022.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	12.00	Rating **	A/W	Issue No.	806
LM End	12.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility		38.130726 °	38.130726 °	
			-121.579646 °	-121.579646 °	
DWR ID	20172				
Comment Code					
Inspector Comment					
FS_ID:52771 DS_ID:20172 EP_NO: 11213 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 20-inch steel drainage pipe through the levee, 1 foot below the crown. Pump on the landside (LS). Siphon breaker on the waterside (WS) shoulder. (18-inch pipe [HLM 12.28] at a depth of 4-feet authorized under Automatic Board Order (ABO) issued as Permit No. 11213, 1975 - Reclamation District No. 563). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""L"" 6+48.9)]. FS Date: 7/13/2018					

LM Start	<b>12.00</b>	Rating **	A/W	Issue No.	<b>806 (cont)</b>
LM End	<b>12.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2019\_52771\_24731.jpg



Pump and pipes off LS toe.

Photo 2 of 3 : UCIP\_SP\_2019\_52771\_24730.jpg



20-inch pipe on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	12.00	Rating **	A/W	Issue No.	806 (cont)	
LM End	12.00	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.130726 °		38.130726 °
				-121.579646 °		-121.579646 °
DWR ID	20172					
Comment Code						
Inspector Comment						
FS_ID:52771						
DS_ID:20172						
EP_NO: 11213						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments:						
FIELD_STRUCT_DESC: 20-inch steel drainage pipe through the levee, 1 foot below the crown. Pump on the landside (LS). Siphon breaker on the waterside (WS) shoulder. (18-inch pipe [HLM 12.28] at a depth of 4-feet authorized under Automatic Board Order (ABO) issued as Permit No. 11213, 1975 - Reclamation District No. 563). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 103, June 1954, (Station ""L"" 6+48.9)].						
FS Date: 7/13/2018						

Photo 3 of 3 : UCIP\_SP\_2019\_52771\_24729.jpg



Pipe and siphon breaker on WS shoulder.

LM Start	12.04	Rating **	M	Issue No.	47
LM End	12.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.130758 °	38.130758 °
				-121.579027 °	-121.579027 °
DWR ID	DWR_RD0563_01_s_2012_47				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim tree on landside slope.					

Photo 1 of 2 : SP\_2019\_RD0563\_210\_47\_20190311\_00018.jpg



Looking northeast at the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Reclamation District No. 0563 Tyler Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough (Tyler Island)	Left	12.11	04/05/2019 04/05/2019	David Julian

LM Start	12.04	Rating **	M	Issue No.	47 (cont)	
LM End	12.04	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			38.130758 °		38.130758 °
				-121.579027 °		-121.579027 °
DWR ID	DWR_RD0563_01_s_2012_47					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
Trim tree on landside slope.						

Photo 2 of 2 : SP\_2019\_RD0563\_210\_47\_20190311\_00019.jpg



Looking northeast at untrimmed tree at landward slope. (Spring 2015)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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